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90122

# IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES V HUMAN RESOURCES ENTERPRISE

## INFORMATION TECHNOLOGY SPECIALIST 5

### DEFINITION

In the areas of systems management/programming, network coordination, database management, business applications programming and education, initiates/manages plans for major changes of existing systems or installation of new systems and coordinates the work with other IT functional areas; performs related work as required.

The Work Examples and Competencies listed are for illustrative purposes only and not intended to be the primary basis for position classification decisions.

#### **WORK EXAMPLES**

Assists a supervisor by instructing employees, answering questions, distributing/balancing the workload and checking work; may make occasional suggestions on appointments, promotions, and reassignments.

Analyzes, as a project leader, the most complex and involved agency operations/procedures; studies system components and determines feasibility of adapting to automation; evaluates potential operational/procedural changes and prepares cost/time estimates for completion.

Reviews proposals for automation and develops preliminary plans; presents recommendations to customers and explains/discusses system operation, purpose, implementation and maintenance.

Directs/coordinates system development, implementation, training and maintenance activities; monitors development projects and reports on activity schedules, progress and performance; evaluates completed systems for documentation and performance.

Evaluates alternative methods of program development and makes recommendations on platforms and programming tools to be used; performs/directs the development of complex programming code.

Develops and conducts training for products and software for an individual or groups.

Analyzes system management processes (availability, change, configuration, problem, project, network and storage management, capacity planning, system performance, data modeling, charge back, service information, disaster recovery and systems security) and evaluates alternatives and potential changes.

Coordinates required system outages with customers and establishes/monitors service level agreements and system performance/availability goals.

Oversees/participates in the systems planning and procurement process; evaluates alternatives and provides hardware/software product samples; consults with customers and prepares specifications and proposals; evaluates proposals, makes recommendations and coordinates the procurement of the required hardware, software or service.

Administers multiple system management processes including the availability/allocation of system storage space, system resources (e.g., network, data, programs, and objects) and system access.

Directs/participates in the installation/upgrade of information system components (hardware/software) and develops installation plans (configuring, tuning, placing, testing and training users).

Develops training programs/plans for customers and technical staff.

Directs/participating in the performance tuning of hardware configurations, systems/application software and operational procedures.

Oversees/coordinates professional consulting activities.



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Oversees/performs design and customization; interprets program specifications and develops reports, templates, programming code and spreadsheets; prepares documentation to support the use of information systems in achieving the agency mission.

Develops/documents standards, policies and procedures (e.g., customer service problem resolution, administrative functions and other system management processes) for mainframe and PC based applications.

#### COMPETENCIES REQUIRED

Knowledge of a broad range of current and emerging information technology including: software, operating systems, telecommunications, database, and hardware available to be applied to agency needs.

Knowledge of basic system management processes/systems, as required in designated positions.

Knowledge of data modeling methods and techniques.

Knowledge of programming languages, operating systems, or utility programs used by the employing agency, as required by the position.

Knowledge of methods and techniques of systems analysis, design and development, as required in designated positions.

Knowledge of advanced system security methods and techniques.

Knowledge of methods/tools used to troubleshoot information processing system problems and monitor system performance.

Knowledge of administrative aspects relative to planning, budget, accounting, operations management, organization structure, personnel policy and procedures.

Knowledge of accepted principles and standards of research and analysis relative to recommending, coordinating, and implementing information processing systems.

Knowledge of curriculum development, as required in designated positions.

Knowledge of information management, file structures and data representation.

Knowledge of business process analysis methods and techniques used in systems analysis, design and development.

Knowledge of regulatory requirements and compliance under the Health Insurance Portability and Accountability Act of 1996 (HIPPA) law.

Ability to create HIPPA privacy and security programs and to draft HIPPA compliant forms to ensure HIPPA compliance within an organization.

Ability to operate current information systems and peripheral equipment necessary to perform current work functions.

Ability to integrate multiple system management processes/systems, as required in designated positions.

Ability to effectively plan, organize, monitor and coordinate teams carrying out agency information processing objectives.

Ability to apply the knowledge of information technology to formulate and conduct assigned training courses for both information processing staff and customers.

Ability to apply methods/tools to solve complex information system problems.

Ability to analyze current and emerging technology to evaluate and recommend improved and potential uses.

Ability to read and interpret technical written information/instructions.

Ability to prepare and present effective written or oral information for both technical and non-technical agency staff at all levels.



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Ability to integrate input from a broad range of sources to apply it to agency information processing systems.

Ability to define and implement information service standards and practices including customer service, database, system development, service levels, security, etc.

Ability to use advanced computer programming methods, techniques, and tools for application development on multiple platforms.

Ability to develop programs of the highest level of complexity.

Ability to coordinate and direct activities of others on the work project.

Ability to interact effectively with individuals at all levels of responsibility.

Ability to plan work, think conceptually, observe and evaluate trends, analyze data, draw logical conclusions and make sound decisions and recommendations.

Ability to understand customer operations, policies and procedures.

Displays high standards of ethical conduct. Refrains from dishonest behavior.

Works and communicates with all clients and customers providing professional service.

Displays a high level of initiative, effort, attention to detail and commitment by completing assignments efficiently with minimal supervision.

Follows policy and cooperates with supervisors.

Fosters and facilitates cooperation, pride, trust, and group identity and team spirit throughout the organization.

Exchanges information with individuals or groups effectively by listening and responding appropriately.

#### EDUCATION, EXPERIENCE, AND SPECIAL REQUIREMENTS

Graduation from an accredited four-year college or university and experience equal to three years of fulltime work: operating a multi-job computer; installing, operating and coordinating computer based networks; installing/maintaining database management systems; developing business application processes; developing/operating system programs; installing/maintaining personal computers, Local Area Networks and/or servers; managing operating systems; developing/delivering information management training; providing Information Technology (IT) customer service; or designing/administering Internet sites;

an equivalent combination of education and experience substituting the completion of an approved curriculum/specialized training program developed and implemented by or in cooperation with state government; or eighteen semester hours of accredited post high school course work in one of the specialty areas listed above; or certification by an authorized educational institution/major computer or software producer in an area directly related to one of the computer specialty areas listed above, for the required education;

OR

an equivalent combination of education and experience substituting one year of the required experience for thirty semester hours of the required education;

OR

employees with current continuous experience in the state executive branch that includes experience equal to six months of full-time work as an Information Technology Specialist 4.

#### SELECTIVE CERTIFICATION

For designated positions the appointing authority, may request those applicants possessing a minimum of twelve semester hours of education, six months of experience, or a combination of both, or a specific certificate, license, or endorsement in the following areas:

419 PC/LAN/Server 073 SQL 074 Email 076 NOVEL Administration 077 NT Administration 078 XENIX	158 Other Mainframe/Midrange/Mini Operating Systems 958 HP OpenView  957 Computer Education 159 PC Software 160 Teaching/Training
079 LINUX 091 CITRIX 413 Network Coordination	161 Operations 162 Data Entry 163 Print Operations 164 Tape Librarian 165 Microfiche Operations 166 CPU Operation (Central Processing Unit) 167 Other Peripheral Equipment Operations
416 Multimedia Specialist 417 Business Objects	
421 Acquisition DBA	
422 Data Mart DBA	168 Customer Support
423 VB.Net  122 PC Business Applications 022 Microsoft C#.Net 121 T-SQL Business Query Writing 123 Notes 124 Power Builder 126 Visual Basic 127 C, C++ 128 ARCVIEW 129 DOS/WINDOWS 436 Javascript	169 Help Desk 071 Applications Support 170 Hardware Support 194 Customer Liaison/Advocacy 737 Info Technology Project Management 955 Business Application Processes
	195 Internet 196 JAVA 197 PERL 198 HTML
437 Power Designer 438 Visual Interdev	230 Geographic Information Systems (GIS)
436 Visual interdev 439 VBScript	233 Data Modeling
130 Mainframe Business Applications 131 DB2 132 ORACLE 139 Data Base 320 IDMS 715 TeraData 927 Human Resources Information System	275 HIPPA Compliance  381 Microstation  382 MDL (Microstation Development Language)  385 GeoMedia  876 Websphere 4.0  Information Assurance
133 Programming Languages 051 PHP 099 COBOL 134 SYNON 135 PL1 136 SAS 137 Other Languages 138 Microsoft Visual Studio 234 ADSO – IDMS	714 vulnerability testing 716 penetration testing 717 security administration 718 secure application development 719 intrusion detection 720 policy development 721 risk management 722 incident response 723 security awareness, training and education
956 Systems Programming/Systems Management 149 UNIX 152 NT 153 CICS 154 MVS 155 S390 156 OS400 157 JCL	724 privacy 725 security audits 726 firewalls 727 risk assessment 728 physical security 729 business continuity/disaster recovery



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Applicants wishing to be considered for such designated positions must list applicable course work, experience, certificate, license, or endorsement on the application.

Effective Date: 10/13 CH